

**Commonwealth Data Center
Green IT Initiatives & Action Items
August 2008**

Current Actions:

- Implementation of “hot isle / cold isle” equipment installation.
- Proper placement of perforated floor tiles to aid cooling of equipment.
- Decommissioning of un-used equipment. (Powering down and removing)
- Removal of staff from computer space.
- Removed non-operational staff from Data Center.
- Removal of cable and debris from under raised floor to aid air-flow.
- Reduced lighting when space is un-occupied. (50%)
- Recycling of equipment packaging.
- Wire management in racks and on equipment to aid air-flow through devices.
- Consolidation of equipment (Server Farm) to reduce needed cabling.
- Reducing equipment footprint through virtualization and remote placement.
- Working with vendors to reduce packaging for new purchases.
- Replaced monitors in Main Console with more efficient units.
- Removed carpet covering and glue from computer floors.
- Working toward complete electrical redundancy to avoid unplanned equipment shutdowns. Power up cycles will be reduced.
- Eliminated Director’s Row voice system. Placed staff on centralized system.
- Installed more efficient PC’s and monitors for data center staff.
- Removed refrigerators, microwaves, coffee makes from equipment floors.

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Planned Actions:

- Sealing penetrations in raised floor.
- Sealing penetrations in structural floor.
- Installation of “blanking” panels in existing open racks to prevent air mixing.
- Activation of centralized power distribution units to maximize electrical power distribution.
- Replacement of aged, inefficient equipment.
- Additional reduction of equipment through virtualization.
- Enhanced monitoring of electrical usage.
- Enhanced lighting controls.
- Carbon dioxide sensors for air quality.
- Window covering in executive offices of data center and other windows.
- Replacement of CRAC units with more efficient type.
- HVAC balancing.